Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BC8

Date: 28-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.45**	90-100
9.5	**85.10**	70-88
4.75	**68.55**	53-71
2.36	**56.25**	42-58
1.18	**43.05**	34-48
0.600	**35.15**	26-38
0.300	**26.80**	18-28
0.150	**17.35**	12-20
0.075	**8.50**	4-10

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BS8

Date: 29-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1392**	900
2	Marshall Flow at 60°C, mm.	**3.55**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BC9

Date: 29-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.35**	90-100
9.5	**87.05**	70-88
4.75	**65.15**	53-71
2.36	**53.10**	42-58
1.18	**45.35**	34-48
0.600	**36.25**	26-38
0.300	**23.45**	18-28
0.150	**19.50**	12-20
0.075	**9.25**	4-10

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BS9

Date: 30-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1376**	900
2	Marshall Flow at 60°C, mm.	**3.48**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BC10

Date: 30-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.55**	90-100
9.5	**85.10**	70-88
4.75	**68.45**	53-71
2.36	**54.25**	42-58
1.18	**43.75**	34-48
0.600	**36.20**	26-38
0.300	**25.90**	18-28
0.150	**18.35**	12-20
0.075	**8.65**	4-10

K. . R

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BS10

Date: 31-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1378**	900
2	Marshall Flow at 60°C, mm.	**3.47**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-CB3 Date: 29-05-2018

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.64 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**28.16 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Specific gravity	**2.61**	-------
5.	Soundness	**6.92 %**	Max. 12 % in Sodium Sulphate

K...R
KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BC11 Date: 02-06-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	97.25	90-100
9.5	84.45	70-88
4.75	68.10	53-71
2.36	53.45	42-58
1.18	46.80	34-48
0.600	34.05	26-38
0.300	26.35	18-28
0.150	17.25	12-20
0.075	7.90	4-10

K.T.R

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BS11 Date: 04-06-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1383**	900
2	Marshall Flow at 60°C, mm.	**3.51**	2.0 - 4.0

K...R

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BC12 Date: 04-06-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**98.25**	90-100
9.5	**85.45**	70-88
4.75	**69.15**	53-71
2.36	**55.30**	42-58
1.18	**43.10**	34-48
0.600	**36.75**	26-38
0.300	**23.05**	18-28
0.150	**18.25**	12-20
0.075	**9.35**	4-10

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-BS12 Date: 05-06-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1389**	900
2	Marshall Flow at 60°C, mm.	**3.53**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-K1

Date: 08-06-2018

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.85	**22.41**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.25	21.65		
3	003	3.33	22.75		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.35	**4.41**
2	002	4.48	
3	003	4.42	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-K2

Date: 11-06-2018

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.33	22.70	**22.38**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.24	21.55		
3	003	3.34	22.90		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.46	**4.42**
2	002	4.49	
3	003	4.32	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-K3

Date: 13-06-2018

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.80	**22.36**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.24	21.55		
3	003	3.33	22.75		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.38	**4.44**
2	002	4.46	
3	003	4.50	

K...R

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P4-K4 Date: 16-06-2018

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.33	22.70	**22.40**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.27	21.85		
3	003	3.33	22.65		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.49	**4.42**
2	002	4.43	
3	003	4.35	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

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NZ/QC/YPD/T&F-W3/2018-19/P4-K5 Date: 18-06-2018

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: **Package-4** 1. Improvement of road and 10th 11th 13th main roads at Judicial layout in ward no 04. 2.Improvement of road and drain at Sharadanagara in ward no.04. 3.Improvement of roads and drains balance main and cross roads of A sector in ward no 04.}

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.80	**22.33**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.26	21.75		
3	003	3.31	22.45		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.35	**4.44**
2	002	4.47	
3	003	4.52	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com